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AN IN-LINE PROCESS FOR MONITORING BINDER DOSAGE
AND DISTRIBUTION ON A SURFACE AND
APPARATUS USEFUL THEREFOR

41 A method and apparatus for determining binder dosage and distribution on a substrate. The apparatus employed is made up of:

- a) a source of long wave ultraviolet light positioned so that ultraviolet waves emitted therefrom will come into contact with a substrate to which binder has been applied,
- b) a filter which blocks ultraviolet waves emitted from the UV source and reflected by the substrate but which allows visible light waves emitted by fluorescence of the binder to pass,
- c) a lens for imaging visible light onto a focal plane,
- d) a video camera positioned at the focal plane of the lens which converts the visible light waves that have passed through the filter and the lens into an electrical signal, and
- e) a device capable of correlating images received by the video camera to binder dosage and distribution on the substrate contacted by the ultraviolet waves emitted by the UV source.